Product Support Bulletin

SUBJECT: MS Windows 3.x Stylus 400/800+/Color Printer Driver problems using the Progression/Progression4/NX-Epson/Endeavor-WG

Date: 11/5/94
Page(s): 1 of 2

PSB No: PSB S-0181
Originator: DS

This bulletin provides additional information to allow printer driver ver 1.03E for the Stylus 400, 800+ and Color printers to complete the installation process when connected to Epson Progression/Progression4/NX-Epson and Endeavor-WG computers in the MS Windows 3 .x environment.

When attempting to install the 1.03E printer driver the following warning message appears:

"This driver cannot he updated because it is currently being used by windows. Wait until Windows is finished using the driver, and then try again."

This is caused by a conflict with the Wingine 256 color video driver and the printer installation process. The following steps will help complete the installation:

1. Exit Windows to the DOS prompt, C:\>.

2. Change directories to Windows (Type CD\Windows) Hit ENTER

3. At the C:\Windows prompt type SETUP and Hit ENTER.

4. After the SETUP screen appears, with the UP and DOWN arrows select the DISPLAY line. Hit ENTER.

5. A BOX will appear near the bottom of the screen containing video drivers. With the DOWN ARROW key, move through the drivers and find either a WINGINE 32k or 64k color driver or select the Windows VGA driver. Hit ENTER. Hit ENTER two more times to exit SETUP.

6. Type WIN to load Windows. In the MAIN program group find CONTROL PANEL and double click. In CONTROL PANEL find PRINTERS and double click. Continue with the printer installation from here.

7. After completing the installation, follow steps 1 through 4 to change back to the Wingine 256 color driver you wish to use.

*NOTE: The latest version, v1.04, of the Stylus Printer Driver, file name STY104.EXE, is available on the Epson RBBS, resolves the above issue.

Product Support Bulletin

Subject: Progression/Progression 4 OS/2 2.0 Display Driver

Date: 10/08/93 PSB No: S-0166
Page(s): 1 of 2 Originator: MWT

This bulletin announces the availability of Wingine-enhanced 32-bit display drivers for the Epson Progression and Progression 4 computers running IBM's OS/2 2.0. The 32-bit Service Pack from IBM must be installed before installing the new display drivers. Also, the current system configuration must be VGA or SVGA.

These drivers can be downloaded from the Epson Bulletin Board System (BBS) that can be reached at (310) 782-4531. They are located in one self-extracting file (**WING_OS2.EXE**) in file library **DRIVERS**. Once downloaded, extract the files to a high-density diskette (1.44MB) by entering the command:

WING_OS2 A: or **WING_OS2 B:**

depending on which disk drive is being used. The diskette must have the volume label **OS2 DRVS**.

To install a driver, place the Display Drivers diskette into drive A:. Open an OS/2 session, either full-screen or window, and enter the following command:

A:INSTALL A: C:

INSTALL.CMD on the driver diskette copies files to the hard drive and starts the OS/2 Display Driver Install utility DSPINSTL, which prompts the user.

When the Display Driver Install main panel appears, the Primary Display should indicate Video Graphics Array. If so, click OK and proceed. If VGA is not selected, select Primary Display and click OK.

Highlight the Driver/Resolution desired and click OK.

When the Source Directory panel appears, choose the floppy drive (A:) which contains the Driver diskette and click on Install.

When the main panel appears again, click on Cancel.

The new driver has been installed. You must shutdown and then re-boot your system for the changes to take effect.

For any future driver changes, INSTALL.CMD on the driver diskette is not required.

To change to a new driver, or return to VGA driver, simply type DSPINSTL on the command line in an OS/2 full-screen or window session.

If you are selecting a different Wingine resolution, make sure that the Wingine Display Driver diskette is in the floppy drive.

These drivers are not supported on the Epson NX or Progression NX, due to the use of a different RAMDAC in those systems. Finally, only the beta version of OS/2 2.1 was tested. According to IBM the 32-bit graphics engine is the same as in the Service Pack, so these drivers should work correctly.

Product Support Bulletin

Subject: Progression/Progression 4 Display Driver Upgrade Version 1.20

Date: 10/08/93 PSB No: S-0163
Page(s): 1 of 2 Originator: MWT

This bulletin announces the availability of Wingine-enhanced display drivers for the Epson Progression and Progression 4 computers. These drivers replace the *VGA Utilities 1* and *2* diskettes that originally shipped with these computers.

The changes from the previous release are:

- Removed support for Windows 3.0
- Added Wingine support for AutoCAD Release 12
- Added support for the TI RAMDAC (used in the NX models) for Windows 3.1
- Added support for 1024 x 768 x 32K colors and 1280 x 1024 x 256 colors, interlaced

These drivers can be downloaded from the Epson Bulletin Board System (BBS) that can be reached at (310) 782-4531. They are located in two self-extracting files (**WINGINE1.EXE** and **WINGINE2.EXE**) in file library **DRIVERS**. These contain *VGA Utilities 1* and *2*, respectively. Once downloaded, extract the files to a high-density diskette (1.44MB) by entering the command:

WINGINE1 -d A: or **WINGINE1 -d B:**

and

WINGINE2 -d A: or **WINGINE2 -d B:**

depending on which disk drive is being used. Then, follow the instructions in the *VGA Utilities Guide* to correctly upgrade any existing drivers or install new ones. For AutoCAD Release 12, please refer to PSB S-0156,

Progression/Progression 4 AutoCAD Release 12 Display Driver Upgrade.

DESCRIPTION

WINGINE1.EXE contains the Chips and Technologies SETUP utility, RAMDAC.COM (which determines whether the Brooktree or TI RAMDAC is installed) and a batch file (SETUP.BAT) that calls RAMDAC, copies the correct OEMSETUP.INF file for the installed RAMDAC and then calls the C&T SETUP program. It also contains all of the Windows drivers. This diskette should not be write-protected, and is all that is needed to install (or upgrade) Windows drivers.

A directory of this diskette should look like:

```
WINDOWS      <DIR>     06-10-93   3:33p
CSETUP   EXE     35801 03-15-92   8:08a
SETUP    SCP     14398 06-15-93  10:52a
SETUP    BAT       211 06-15-93  11:03a
RAMDAC   COM       143 06-10-93   4:35p
```

WINGINE2.EXE contains all of the non-Windows Wingine drivers. The directory for this diskette should look like:

```
ACAD         <DIR>     06-08-93   9:04a
CADKEY       <DIR>     06-08-93   9:05a
CADVANCE     <DIR>     06-08-93   9:05a
FW3          <DIR>     06-08-93   9:05a
GEM3         <DIR>     06-08-93   9:05a
LEVEL3       <DIR>     06-08-93   9:06a
LOTUS        <DIR>     06-08-93   9:06a
VCAD         <DIR>     06-08-93   9:06a
VESA         <DIR>     06-08-93   9:06a
WORD5        <DIR>     06-08-93   9:07a
WORD55       <DIR>     06-08-93   9:07a
WP50         <DIR>     06-08-93   9:07a
WP51         <DIR>     06-08-93   9:07a
UTIL         <DIR>     06-08-93   9:07a
ACAD12       <DIR>     06-08-93   9:07a
```

Product Support Bulletin

Subject: Progression Memory Configurations

Date: 06/04/93
Page(s): 1 of 1

PSB No: S-0159
Originator: MWT

This bulletin clarifies the supported memory configurations in the Progression computer. The following 70ns, 36-bit, fast page mode, gold leaded SlMMs are supported:

1MB (256KB x 36)
4MB (1MB x 36)
16MB (4MB x 36)
64MB (16MB x 36)

SlMMs must be installed in matching pairs - single SlMMs and mismatched SIMM pairs are not supported. Single SlMMs can cause a variety of problems, including (but not limited to) diskette format failures.

The following table describes the only supported memory configurations:

SIMM Socket U11	SIMM Socket U12	Total Memory
		4MB
1MB (256KB x 36)	1MB (256KB x 36)	6MB
4MB (1MB x 36)	4MB (1 MB x 36)	12MB
16MB (4MB x 36)	16MB (4MB x 36)	36MB
64MB (16MB x 36)	64MB (16MB x 36)	128MB*

*When populated with two 64MB SIMMs, the soldered base 4MB RAM is disabled.

Product Support Bulletin

Subject: Proper Method for Running Benchmark and Diagnostics Programs

Date: 06/04/93
Page(s): 1 of 1

PSB No: S-0158
Originator: MWT

This bulletin describes the proper method for running any benchmark or diagnostics programs. This applies to any computer system.

In most cases, the computer should be started using an MS-DOS boot diskette that's 'clean' - in other words, one with no CONFIG.SYS or AUTOEXEC.BAT files. The appropriate executable can then be run, either from diskette or hard drive.

There will be some exceptions to the above rule. In attempting to benchmark or troubleshoot any add-on that requires a device driver (CD-ROM, local area network, etc.), obviously the necessary device driver(s) must be loaded. Also, some programs will require a minimum number of FILES or BUFFERS to be defined in the CONFIG.SYS file. Such programs will usually display this requirement if they are run without the necessary CONFIG.SYS file.

For the most consistent results, use the absolute minimal boot configuration that's allowed by the hardware being tested.

Product Support Bulletin

Subject: Progression/Progression 4 AutoCAD R12 Display Driver Upgrade

Date: 06/04/93 PSB No: S-0156
Page(s): 1 of 2 Originator: MWT

This bulletin announces the availability of Wingine-enhanced display drivers for AutoCAD Release 12 on the Epson Progression and Progression 4 computers. These display list drivers offer increased video performance for AutoCAD R12 in the DOS environment. These drivers are not necessary if the Windows version of AutoCAD is being used.

These drivers can be downloaded from the Epson Bulletin Board System (BBS) that can be reached at (310) 782-4531. They are located in a single self-extracting file **(ACAD12WG.EXE)** in file library **DRIVERS.** Once downloaded, extract the files to a high-density diskette (either 1.2MB or 1.44MB) by entering the command:

ACAD12WG A: or **ACAD12WG B:**

depending on which disk drive is being used. Then, follow the instructions below to correctly upgrade the existing AutoCAD installation (AutoCAD must have been previously installed).

Installation instructions:

Make sure that the installation diskette is write enabled (remove write protection sticker on 5.25” diskette, or close window on 3.5” diskette).

Change to the floppy drive which contains the display driver diskettes (for example, **A: <ENTER>).**

Start the installation process by typing **INSTALL <ENTER>.**

You will now be prompted to answer several questions. The following are suggested or default responses.

Please enter your full name > **Your Name**
Please enter your company **> Your Company**
Are you using AutoCAD Release 12 (Y/n) > y

For AutoCAD Release 12, we recommend that you install TurboDLDLite into the AutoCAD DRV directory. Is this OK? (Y/n) > y
Where is AutoCAD R12 installed? > **C:\ACAD**
Verify: Install TurboDLDLite in C:\ACAD\drv? (Y/n) > y

Several files will now be copied onto your hard drive. You will be instructed to start AutoCAD with the “ACAD -r” command, but this is incorrect; use “ACADR12 -r” or AutoCAD will not be able to find certain files.

AutoCAD will now display some information about your current configuration, and prompt you to Press RETURN to continue. Press **<ENTER>** now. The configuration menu is now displayed. Select 3 to configure your video display.

Of the available video displays listed, select **11, TurboDLD Lite by Panacea Inc.**

A welcome screen will be displayed followed by the “TurboDLD Lite Main Menu”. Highlight **Select Graphics Board/Resolution** from this menu and press **<ENTER>.**

The “Graphics Board Selection Menu” should now be displayed. Highlight **Select Display Graphics Board** and press **<ENTER>.**

The “Select Graphics Board” menu should now be displayed. Highlight either **Wingine VGA** or **Wingine by Chips and Technology** and press **<ENTER>.**

Wingine VGA supports the following resolutions:

640 by 480 by 16 colors
800 by 600 by 16 colors
1024 by 768 by 16 colors
320 by 200 by 256 colors
640 by 400 by 256 colors
640 by 480 by 256 colors
800 by 600 by 256 colors

Wingine by Chips and Technology supports the following resolutions:

640 by 480 by 256 colors
800 by 600 by 256 colors
1024 by 768 by 256 colors
1280 by 1024 by 256 colors (currently not supported by EPSON)

These resolutions will be displayed in an upcoming screen.

You will now be returned to the “Graphics Board Selection Menu”. Highlight **Select Display Resolution** and press **<ENTER>.**

You will now be able to highlight and select the desired resolution from those displayed above.

Finally, select **Save and Exit** from the main menu. AutoCAD will now ask you several questions before returning to the Configuration menu; choose the defaults.

Product Support Bulletin

Subject: Epson Progression Flash BIOS Upgrade Procedure

Date: 04/02/93
Page(s): 1 of 1

PSB No: S-0154
Originator: MWT

This bulletin provides the correct procedure for upgrading the flash BIOS in the Progression computer. BIOS version 1-06.1.05 (106105.EXE) will be used as an example.

1) Download the latest flash BIOS version from the Epson BBS. This may be found in the BIOS file library and and will typically use the BIOS version as the filename (i.e. 106105) and will either be a compressed file (ZIP) or a self-extracting compressed file (.EXE).

2) Create a "clean" MS-DOS boot floppy **(FORMAT A:** /S). It should contain only the hidden system files and COMMAND.COM - no AUTOEXEC.BAT or CONFIG.SYS files.

3) Extract the BIOS files to the boot floppy - for example, 106105 **A:** or (for a .ZIP file) **PKUNZIP 106105.ZIP A:.** This should create the BIOS file (50106105.EPS), the flash loader program (FLASHLDR.EXE) and the language support files (*.LNG) on the boot floppy.

4) Reboot the system with the boot floppy in drive A. At the A: prompt, type the command **FLASHLDR** and press Enter. Follow the prompts to select the BIOS file and the language. Before the flash ROM is erased, FLASHLDR will prompt with the messsage "Are you sure you want to do this (Y/N)?", so you can abort at the last second if necessary. If you reply "Y", FLASHLDR will erase the flash ROM contents and the reprogram with the updated BIOS file. On completion, FLASHLDR will prompt you to remove the diskette before it reboots the system.

5) At reboot, verify that the BIOS version displayed matches the last six digits of the filename, as in 1.06.1.05.

Product Support Bulletin

Subject: Progression Incompatibilities

Date: 02/05/93
Page(s): 1 of 2

PSB No: S-0152A
Originator: MWT

The purpose of this bulletin is to provide information on known incompatibilities of the Epson Progression at the time of product introduction and any subsequent resolutions.

1. The NE2100 network interface card (and other similar bus master cards) may cause fatal system parity errors under heavy load.

   Resolution: Under investigation. A permanent solution may be provided by a system board revision.

2. External 5.25“ 1.2MB floppy disk drive by Pacific Rim isn’t recognized by the system. The device driver loads correctly, but the drive is always in a busy or not ready state. This results in the message “Drive not ready”.

   Resolution: Pacific Rim has been notified of this issue. Note that other parallel port-interfaced FDDs (such as MicroSolutions and Sysgen) function correctly.

3. The IBM 3270 terminal emulation adapter and Entry-level software cause a total system lock-up when any key is pressed after character remapping takes place.

   Resolution: BIOS version 1.02.1.03.

4. Western Digital VGA (1024) PRO 2 card does not work (blank screen).

   Resolution: This card has been out of production and unavailable for some time. Later versions of WD-based cards work correctly. This should not be a major issue due to the performance of the built-in Wingine video controller.

5. STB Systems WIND/X video adapter gives no display using default settings.

Resolution: A temporary solution is to change the WIND/X jumper J3 to select 8-bit instead of 16-bit VGA BIOS. A permanent solution is under investigation.

6. When the slow speed is set via SETUP, SIMM memory is not recognized.

Resolution: BIOS version 1.02.1.03.

7. In a server configuration, when the slow speed is set via keyboard (CTRL-ALT-minus) and the NetWare 3.11 SERVER.EXE program is executed, the system hangs.

Resolution: Under investigation. Probable BIOS revision required.

8. Too many invalid commands cause AutoCAD's Phar memory manager to fail. It will usually display the message "Heap stack error". At this point, AutoCAD may fail or terminate, dropping back out to DOS.

Resolution: BIOS version 1.02.1.03.

9. Streaks or lines may appear on the screen when using Windows 3.0 or 3.1 applications in standard VGA mode. This is not noticeable during Windows installation.

Resolution: For configurations that have Windows 3.1 preinstalled, the default display setting will be the Wingine 640 x 480 x 256 color driver, so the problem will not occur. For other configurations, the appropriate Wingine display driver should be installed, following the procedure in the ***Progression VGA Utilities Guide.*** A permanent solution is under investigation, and may be provided by a system board revision.

Flash BIOS version 1.02.1.03 may be downloaded from file library BIOS on the Epson Bulletin Board System (310-782-4531). The filename is 102103.ZIP and it contains the BIOS code, the FLASHLDR.EXE program and a text file of instructions. Download with protocol and extract with PKUNZIP version 1.10 or later. Copy the extracted files to a clean MS-DOS boot diskette, boot the system with that diskette and run FLASHLDR.

Product Support Bulletin

Subject: Release of VGAMODE.COM for the Epson Progression

Date: 12/04/92
Page(s): 1 of 1

PSB No: S-0151
Originator: MWT

The purpose of this bulletin is to inform you of the release of VGAMODE.COM for the Epson Progression. This is a utility for setting 80/132 column and 25/43/50 row display modes in DOS. Approximately the first 200 production units were inadvertently shipped with an incorrect version of this utility called SETMODE.COM. Running this program causes the message “This program will not run with the installed video controller.” This utility should be replaced with VGAMODE.COM.

VGAMODE.COM is part of the self-extracting file VGAMODE.EXE, which is available for download from the Epson Product Support Bulletin Board System. It is located in file library 80486L and should be downloaded with protocol (such as XMODEM) and then executed. The archive also contains the files README.TXT (installation and use instructions) and SETUP.SCP (a new script file for the CHIPS and Technologies SETUP.EXE program).

PROGRESSION					
VER	PART #	DESC	TYPE	LOC	REASON
1.01.1.01		RAINER	27C512	U83	INITIAL RELEASE
1.02.1.03		CRAN-A03	27C512	U83	See TIB No: PROG-001C (10/08/93).
1.06.1.05		CRAN-A04	27C512	U83	See TIB No: PROG-001C (10/08/93).
1.11.1.10	Y745806004	BOOT ROM	27C512	U83	Support for high refresh rate Wingine/VGA BIOS. SETUP provides high refresh rate selection. SETUP provides full French text. Fixes problems that never re-enable the 48(cache through a vector restart. Fixes interaction problems with EMM386.EXE and User-Defined HDD's. Fixes problem where User-Defined HDD table differs from pre-defined HDD's table for the same drive by one cylinder and pre-defined HDD table where control byte was not properly set for some drives with more than 8 heads. Adds WD1170 HDD as type 30. See ECN No: PROG-003 (8/6/93).
1.15.1.12	2013858	BOOT ROM	27C512	U83	Corrected jagged cursor display in interlaced modes with the BT-482 RAMDAC when using the hardware cursor Wingine display drivers. Seria BIOS has been expanded to support COM3 and COM4. Parallel BIOS has been corrected to provide support for LPT1 - LPT3. Corrected inability to ru SETUP when an Adapter AHA-1540C or AHA-1542C SCSI host adapter is installed by modifying POD to run external ROM initialization routines jus prior to invocation of SETUP. ECN No: PROG-004 (10/08/93).